

**Flood Control Project Maintenance  
Levee Inspections**  
**LMA District Cover Sheet**  
**Spring 2015 Levee Inspection Results**

**Reclamation District No. 2095 Paradise Cut**

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
* Overall LMA Rating (Fall Only)				

\*\* Non-receipt of Summer or Winter Inspection Reports may effect overall annual rating.

\*  
SPRING INSPECTIONS: Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.

FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports. This rating is not intended to be an indication of risk.

Comments


**Flood Control Project Maintenance  
Levee Inspections**

**Unit Cover Sheet**

**Spring 2015 Levee Inspection Results**

**Reclamation District No. 2095 Paradise Cut**

Waterway			Bank	Unit Miles
Unit No. 01 Paradise Cut			Left	1.45
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	04/22/2015 - 04/22/2015			
DWR Inspector	Maksim Khashchuk			
Accompanied By	Rosie Silva RD2095			

**Summer & Winter Inspections**

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

*The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.*

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2015**

**Reclamation District No. 2095 Paradise Cut**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Paradise Cut	Left	1.45	04/22/2015 04/22/2015	Maksim Khashchuk

LM Start		Rating **	A	Issue No.	14		
LM End		Issue Type +	Ma	Location *	N/A		
Category	Earthen Levee			GPS Latitude/Longitude			
				Start		End	
Item	Operations & Maintenance Manuals				°		°
					°		°
DWR ID	DWR_RD2095_01_s _ 2013_14						
Action/Comments							
Inspector Comments: The O&M Manual is available at the office.							

No Photos

LM Start		Rating **	A	Issue No.	17		
LM End		Issue Type +	Ma	Location *	N/A		
Category	Earthen Levee			GPS Latitude/Longitude			
				Start		End	
Item	Flood Preparedness & Training				°		°
					°		°
DWR ID	DWR_RD2095_01_s _ 2013_17						
Action/Comments							
Inspector Comments: The LMA has a current flood fight training and a flood fighting plan.							

No Photos

LM Start		Rating **	A	Issue No.	19		
LM End		Issue Type +	Ma	Location *	N/A		
Category	Earthen Levee			GPS Latitude/Longitude			
				Start		End	
Item	Emergency Supplies & Equipment				°		°
					°		°
DWR ID	DWR_RD2095_01_s _ 2013_19						
Action/Comments							
Inspector Comments: Flood fighting supplies available on-site at the warehouse.							

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2015**

**Reclamation District No. 2095 Paradise Cut**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Paradise Cut	Left	1.45	04/22/2015 04/22/2015	Maksim Khashchuk

LM Start	0.07	Rating **	A/W	Issue No.	3
LM End	0.07	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.770572 °	37.770572 °
				-121.326283 °	-121.326283 °
DWR ID	DWR_RD2095_01_s _ 2013_3				
Action/Comments					
Pipe					

Photo 1 of 1 : SP\_2015\_RD2095\_322\_3\_20150317\_00002.jpg



View of the pipe at waterside levee hinge.

LM Start	0.11	Rating **	A/W	Issue No.	134
LM End	0.11	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.770212 °	37.770212 °
				-121.325675 °	-121.325675 °
DWR ID	DWR_RD2095_01_s _ 2014_134				
Action/Comments					
Repair the levee slope damaged by vehicle traffic and prevent access where possible.					

Photo 1 of 1 : SP\_2015\_RD2095\_322\_134\_20150317\_00008.jpg



View of the vehicle access on the waterside levee slope.

LM Start	0.35	Rating **	A/W	Issue No.	5
LM End	0.35	Issue Type +	En	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.767822 °	37.767822 °
				-121.322835 °	-121.322835 °
DWR ID	DWR_RD2095_01_s _ 2012_5				
Action/Comments					
Pipe					
Inspector Comments: No closure devices or flap gate on discharge pipe. Pipe penetrates freeboard of levee.					

Photo 1 of 2 : SP\_2015\_RD2095\_322\_5\_20150317\_00004.jpg



View of pipe daylighting at landside levee slope.

<b>* Location</b>		<b>** Rating</b>		<b>+ Issue Type</b>	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2015**

**Reclamation District No. 2095 Paradise Cut**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Paradise Cut	Left	1.45	04/22/2015 04/22/2015	Maksim Khashchuk

LM Start	0.35	Rating **	A/W	Issue No.	5 (cont)	
LM End	0.35	Issue Type +	En	Location *	CR	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Encroachments			37.767822 °	37.767822 °	
				-121.322835 °	-121.322835 °	
DWR ID	DWR_RD2095_01_s _ 2012_5					
Action/Comments						
Pipe						
Inspector Comments: No closure devices or flap gate on discharge pipe. Pipe penetrates freeboard of levee.						

Photo 2 of 2 : SP\_2015\_RD2095\_322\_5\_20150317\_00005.jpg



View of the pipe penetrating waterside levee slope.

LM Start	0.42	Rating **	A/W	Issue No.	13
LM End	0.42	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.766917 °	37.766917 °
				-121.322267 °	-121.322267 °
DWR ID	DWR_RD2095_01_s _ 2013_13				
Action/Comments					
Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comments: LMA is actively controlling the slope instability.					

Photo 1 of 1 : SP\_2015\_RD2095\_322\_13\_20150317\_00007.jpg



View of the repaired waterside levee slope.

LM Start	0.68	Rating **	M	Issue No.	242
LM End	0.68	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.763991 °	37.763991 °
				-121.319334 °	-121.319334 °
DWR ID	DWR_RD2095_01_s _ 2015_242				
Action/Comments					
Schedule repair of erosion site prior to the next inspection.					

Photo 1 of 1 : SP\_2015\_RD2095\_322\_242\_20150424\_00321.jpg



View of the erosion on the waterside levee hinge.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2015**

**Reclamation District No. 2095 Paradise Cut**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Paradise Cut	Left	1.45	04/22/2015 04/22/2015	Maksim Khashchuk

LM Start	0.70	Rating **	M	Issue No.	243
LM End	0.70	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.763859 °	37.763859 °
				-121.319096 °	-121.319096 °
DWR ID					

No Photos

Action/Comments					
Inspector Comments: FS_ID:19787 DS_ID:21635 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Wooden walkway to pier possible safety hazard as wood planks are rotten. Positive closure device missing from distribution box on LS toe. FIELD_STRUCT_DESC: 16-inch steel irrigation pipe through the levee 8.0 feet below the crown. Pump on pile structure in the channel. 5'X5' concrete distribution box at the toe of the landward slope. Originally included in the 1964 O&M manual. FS Date: 09/10/2013					

LM Start	0.71	Rating **	M	Issue No.	11
LM End	0.71	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.763630 °	37.763630 °
				-121.319045 °	-121.319045 °
DWR ID	DWR_RD2095_01_s_2012_11				
Action/Comments					
Building					
Inspector Comments: Pump house near RR.					

Photo 1 of 1 : SP\_2015\_RD2095\_322\_11\_20150317\_00006.jpg



View of building at the landside levee toe.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2015**

**Reclamation District No. 2095 Paradise Cut**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Paradise Cut	Left	1.45	04/22/2015 04/22/2015	Maksim Khashchuk

LM Start	0.72	Rating **	M	Issue No.	1
LM End	0.72	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.763630 °	37.763630 °
				-121.319000 °	-121.319000 °
DWR ID	DWR_RD2095_01_s _ 2015_1				
Action/Comments					
Inspector Comments: 08/26/2014: No significant change observed. 08/28/2013: No significant change observed. 07/18/2012: No significant change observed. 09/02/2011: No significant change observed. 09/22/2010: No significant change observed. There is now considerable vegetation at the water line and along the lower berm slope. However, the erosion on the lower berm slope is still present and has not been corrected. 08/06/2010: Recommended for local maintenance issue, per CLRO. 07/29/2009: No major change since last visit; noticeable vegetation growth; erosion is on berm, but if left untreated, it will eventually erode into levee prism; site is recommended for annual assessment and monitoring of the site, per CLRO CES 2008 Report; Site # is the same as RM6.80,LM0.73; previously rated "U". 07/22/2008: Downstream of WPRR near siphon pipe & pump; sandy levee; visited by Jeff Van Gilder and LRO in 2008 for repair assessment; scouring downstream of RR crossing, possibly caused by eddy effects. 03/13/2007: Site visited on 03/13/2007. [2014 Site ID:RD2095U01RM6.74]					

Photo 1 of 1 : SP\_2015\_RD2095\_322\_1\_20150317\_00001.jpg



Direct view of the erosion upstream of Railroad bridge.

LM Start	0.87	Rating **	M	Issue No.	244
LM End	0.87	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.761582 °	37.761582 °
				-121.317881 °	-121.317881 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:19812 DS_ID:21637 EP_NO: 13926 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: No electrical connection can be identified. Possibly awaiting a flood event for re-activation. FIELD_STRUCT_DESC: 40-inch steel stormdrain discharge pipe through the levee 1-foot below the crown. 6 pumps mounted on wooden pier at LS toe, all discharge into 40-inch pipe. Permit was for a 24-inch steel discharge pipe through levee 2.0 feet below crown with a flapgate on waterward side. But, Permit notes show it was modified in 2001 to its current status (Permit No. 13926). FS Date: 09/10/2013					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2015**

**Reclamation District No. 2095 Paradise Cut**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Paradise Cut	Left	1.45	04/22/2015 04/22/2015	Maksim Khashchuk

LM Start	0.88	Rating **	M	Issue No.	245
LM End	0.88	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.761554 °	37.761554 °
				-121.317847 °	-121.317847 °
DWR ID					

No Photos

Action/Comments					
Inspector Comments: FS_ID:34387 DS_ID:21629 EP_NO: 6259 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: What appears to be the concrete headwall on the LS toe is tilting and failing. There is a possibility that the concrete is rubble used to fill in around levee toe. Good candidate for video inspection. FIELD_STRUCT_DESC: 30-inch corrugated metal pipe through levee 21.0 feet below crown. Slide gate in riser on the waterward slope. Concrete headwalls and aprons on both ends. Flap gate on the waterward end. Two corrugated metal cutoff walls ( Permit No. 6259, 1969). FS Date: 09/10/2013					

LM Start	0.88	Rating **	A/W	Issue No.	4
LM End	0.88	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.761475 °	37.761475 °
				-121.317804 °	-121.317804 °
DWR ID	DWR RD2095 01 f 2013 4				

Action/Comments					
Fence Inspector Comments: Permitted gate across landside levee ramp. A key was provided to the DWR inspector.					

Photo 1 of 1 : SP\_2015\_RD2095\_322\_4\_20150317\_00003.jpg



View of the new gate at landside levee hinge.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2015**

**Reclamation District No. 2095 Paradise Cut**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Paradise Cut	Left	1.45	04/22/2015 04/22/2015	Maksim Khashchuk

LM Start	0.91	Rating **	M	Issue No.	246
LM End	0.91	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.761079 °	37.761079 °
				-121.317567 °	-121.317567 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:19815 DS_ID:21630 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: Pipe abandoned and should be verified as having been done so properly. FIELD_STRUCT_DESC: 12-inch steel stormdrain pipe through the levee 1.5 feet below the crown. Pump on pile structure in drain ditch on landward side. Siphon breaker in steel standpipe on the waterward slope. Originally included in the 1964 O&M manual. FS Date: 09/10/2013					

No Photos

LM Start	0.92	Rating **	M	Issue No.	247
LM End	0.92	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.761046 °	37.761046 °
				-121.317540 °	-121.317540 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:19813 DS_ID:21631 EP_NO: 6537 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Corroded holes on pipe at outlet WS toe, good indication of internal pipe condition. Good candidate for video inspection. FIELD_STRUCT_DESC: 14-inch steel stormdrain discharge pipe through the levee 2.5 feet below the crown. Pump on pile structure in drain ditch on landward side. Siphon breaker in 24-inch CMP riser on the waterward shoulder and flap gate on the waterward end (Permit No. 6537, 1969). FS Date: 09/10/2013					

No Photos

* Location LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

**Unit Cover Sheet**

**Spring 2015 Levee Inspection Results**

**Reclamation District No. 2095 Paradise Cut**

Waterway			Bank	Unit Miles
Unit No. 02 San Joaquin River			Left	3.41
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	04/22/2015 - 04/22/2015			
DWR Inspector	Maksim Khashchuk			
Accompanied By	Rosie Silva RD2095			

**Summer & Winter Inspections**

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

*The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.*

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2015**

**Reclamation District No. 2095 Paradise Cut**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Left	3.41	04/22/2015 04/22/2015	Maksim Khashchuk

LM Start	0.03	Rating **	A/W	Issue No.	9
LM End	0.03	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.758986 °	37.758986 °
				-121.307854 °	-121.307854 °
DWR ID	DWR_RD2095_02_s _ 2013_9				
Action/Comments					
Repair the levee slope damaged by vehicle traffic and prevent access where possible.					

Photo 1 of 1 : SP\_2015\_RD2095\_323\_9\_20150317\_00006.jpg



View of the vehicle tire ruts on waterside levee slope.

LM Start	0.36	Rating **	M	Issue No.	5
LM End	0.82	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.754952 °	37.749645 °
				-121.305880 °	-121.301977 °
DWR ID	DWR_RD2095_02_f _ 2012_5				
Action/Comments					
Ditch					

Photo 1 of 1 : SP\_2015\_RD2095\_323\_5\_20150317\_00004.jpg



View of a ditch along the landside toe.

LM Start	0.60	Rating **	A/W	Issue No.	6
LM End	0.60	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.751668 °	37.751668 °
				-121.304302 °	-121.304302 °
DWR ID	DWR_RD2095_02_s _ 2012_6				
Action/Comments					
Elderberries are blocking visibility and flood fight capability.					

Photo 1 of 1 : SP\_2015\_RD2095\_323\_6\_20150317\_00005.jpg



11/01/2011 Elderberry bush at landside toe.

\* Location  
LS : Land Side N/A : Not Applicable  
WS : Water Side  
CR : Crown

\*\* Rating  
A : Acceptable N : Not Inspected/Rated  
M : Minimally Acceptable C : Corrected  
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2015**

**Reclamation District No. 2095 Paradise Cut**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Left	3.41	04/22/2015 04/22/2015	Maksim Khashchuk

LM Start	0.74	Rating **	A/W	Issue No.	14
LM End	0.74	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.749916 °	37.749916 °
				-121.303312 °	-121.303312 °
DWR ID	DWR_RD2095_02_f_2013_14				
Action/Comments					
Fence					
Inspector Comments: Permitted gate across levee crown. A key was provided to the DWR inspector.					

Photo 1 of 1 : SP\_2015\_RD2095\_323\_14\_20150317\_00007.jpg



View of new gate across levee crown.

LM Start	0.75	Rating **	A/W	Issue No.	11
LM End	0.75	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.749710 °	37.749710 °
				-121.303263 °	-121.303263 °
DWR ID	DWR_RD2095_02_s_2012_11				
Action/Comments					
Pipe Inspector Comments: Two pipes penetrate levee freeboard. Siphon breakers present.					

No Photos

LM Start	0.76	Rating **	A/W	Issue No.	13
LM End	0.76	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.749781 °	37.749781 °
				-121.302991 °	-121.302991 °
DWR ID	DWR_RD2095_02_s_2012_13				
Action/Comments					
Pipe					
Inspector Comments: Intake pump and pipe.					

No Photos

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2015**

**Reclamation District No. 2095 Paradise Cut**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Left	3.41	04/22/2015 04/22/2015	Maksim Khashchuk

LM Start	0.97	Rating **	A/W	Issue No.	941
LM End	0.97	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.749706 °	37.749706 °
				-121.299237 °	-121.299237 °
DWR ID	DWR_RD2095_02_s _ 2012_941				
Action/Comments					
Elderberries are blocking visibility and flood fight capability. Inspector Comments: Dense bush within 20' of crown on waterside slope.					

Photo 1 of 2 : SP\_2015\_RD2095\_323\_941\_20150424\_00553.jpg



View of the elderberry shrubs at the waterside levee hinge.

Photo 2 of 2 : SP\_2015\_RD2095\_323\_941\_20150424\_00554.jpg



View of the elderberry shrubs on the waterside levee slope.

LM Start	0.98	Rating **	A/W	Issue No.	940
LM End	0.98	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.749629 °	37.749629 °
				-121.299040 °	-121.299040 °
DWR ID	DWR_RD2095_02_s _ 2012_940				
Action/Comments					
Elderberries are blocking visibility and flood fight capability.					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2015**

**Reclamation District No. 2095 Paradise Cut**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Left	3.41	04/22/2015 04/22/2015	Maksim Khashchuk

LM Start	1.09	Rating **	N	Issue No.	3
LM End	1.09	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.748184 °	37.748184 °
				-121.298995 °	-121.298995 °
DWR ID	DWR_RD2095_02_s_2012_3				
Action/Comments					
Tree stumps.					
Inspector Comments: 4 stumps					

Photo 1 of 1 : SP\_2015\_RD2095\_323\_3\_20150317\_00003.jpg



View of the tree stumps on the landside levee slope..

LM Start	1.30	Rating **	N	Issue No.	8
LM End	1.30	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.745343 °	37.745343 °
				-121.297620 °	-121.297620 °
DWR ID	DWR_RD2095_02_f_2012_8				
Action/Comments					
Tree stumps.					
Inspector Comments: Two tree stumps.					

No Photos

LM Start	1.35	Rating **	A/W	Issue No.	195
LM End	1.35	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.744746 °	37.744746 °
				-121.297695 °	-121.297695 °
DWR ID	DWR_RD2095_02_s_2014_195				
Action/Comments					
Note and monitor erosion site.					

Photo 1 of 1 : SP\_2015\_RD2095\_323\_195\_20150317\_00009.jpg



View of the erosion on the waterside levee slope possibly eroding into the levee prism.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2015**

**Reclamation District No. 2095 Paradise Cut**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Left	3.41	04/22/2015 04/22/2015	Maksim Khashchuk

LM Start	1.50	Rating **	A/W	Issue No.	12
LM End	1.50	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.742828 °	37.742828 °
				-121.297532 °	-121.297532 °
DWR ID	DWR_RD2095_02_s _ 2012_12				
Action/Comments					
Elderberries are blocking visibility and flood fight capability.					

No Photos

LM Start	1.50	Rating **	M	Issue No.	942
LM End	1.50	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.743142 °	37.743142 °
				-121.297692 °	-121.297692 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:19863 DS_ID:21642 EP_NO: 4658 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pipe appears abandoned in place and re-routed to LM 1.652. Need to verify pipe was properly abandoned. Permit FIELD_STRUCT_DESC: *Abandoned* 14-inch pipe through levee 3.5-feet below crown. Pump on structure over drain ditch on the landward side. Flap gate on the waterward end (Permit No. 4658). Originally included in the 1968 O&M manual. FS Date: 09/10/2013					

No Photos

LM Start	1.51	Rating **	U	Issue No.	365
LM End	1.51	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.742866 °	37.742866 °
				-121.297274 °	-121.297274 °
DWR ID	DWR_RD2095_02_s _ 2015_365				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements. Inspector Comments: Dense vegetation on levee slope.					

Photo 1 of 1 : SP\_2015\_RD2095\_323\_365\_20150424\_00555.jpg



View of the annual vegetation on the landside levee slope.

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance  
Levee Inspections**

## Levee Inspection Report By Mile - Spring 2015

### Reclamation District No. 2095 Paradise Cut

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Left	3.41	04/22/2015 04/22/2015	Maksim Khashchuk

LM Start	1.65	Rating **	M	Issue No.	943
LM End	1.65	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.741345 °	37.741345 °
				-121.296189 °	-121.296189 °
DWR ID					

No Photos

Action/Comments					
Inspector Comments: FS_ID:19866 DS_ID:21654 EP_NO: 6298A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: No permit identified for this crossing. FIELD_STRUCT_DESC: 16-inch steel stormdrain pipe through the levee 2-feet below the crown. Siphon breaker in PVC riser on WS shoulder. Pump on pier in ditch on LS toe 750-feet to Northwest from crossing. FS Date: 09/10/2013					

LM Start	1.75	Rating **	M	Issue No.	1
LM End	1.75	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.740196 °	37.740196 °
				-121.297662 °	-121.297662 °
DWR ID	DWR RD2095 02 s 2015 1				

Action/Comments					
Inspector Comments: 7/02/2014: No significant change observed. 08/28/2013: No significant change observed. 09/13/2012: The site has been visited by land survey. The vegetation on the site shows the erosion has not developed significantly from the last survey. The site was not visited by boat survey due to the limitation of navigable waterway. 08/23/2011: No significant change observed. 9/22/2010: No significant change observed. There is moderate vegetation growth on the berm. Despite the erosion occurring on the berm, corrective action should be taken before the issue becomes severe. 9/29/2009: Site is immediately downstream of a section of existing rip rap; there is a 20-foot berm remaining; berm will continue to erode unless erosion is mitigated; Site# is the same as RM62.6, LM1.87; recommended for annual assessment, per CES Evaluation 2008 Report 2006: Visited 10/20/06 [2014 Site ID:RD2095U02RM60.62]					

Photo 1 of 1 : SP\_2015\_RD2095\_323\_1\_20150317\_00001.jpg



View of the erosion.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2015**

**Reclamation District No. 2095 Paradise Cut**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Left	3.41	04/22/2015 04/22/2015	Maksim Khashchuk

LM Start	1.84	Rating **	M	Issue No.	2
LM End	1.84	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.738880 °	37.738880 °
				-121.298260 °	-121.298260 °
DWR ID	DWR_RD2095_02_s _ 2015_2				

**Action/Comments**

Inspector Comments: 7/02/2014: No significant change observed.  
08/28/2013: No significant change observed. Dense vegetation blocks the visual inspection at the site.  
09/13/2012: The site has been visited by land survey. The erosion is not visible from the levee slope because of dense vegetation at the site. Levee slope is protected by placed rocks. The site was not visited by boat survey due to the limitation of navigable waterway.  
08/23/2011: Dense vegetation makes it difficult to view the possible erosion. No new development was observed on site.  
09/23/2010: At the time of the inspection, the erosion site was difficult to view from the levee. The erosion is located on the bank toe, below the existing rip rap. There were no signs of repair on site, nor has the site been reported to be repaired by the district. Images taken from last year indicate that existing rip rap at the bank toe has sloughed exposing the underlying soils. Weakening of the toe could lead to future bank instability.  
08/05/2010: Recommended for annual assessment and monitoring during flood events, per CLRO.  
09/29/2009: No major change observed since last visit; sloughing of the rip rap above toe; erosion begins immediately downstream of existing rip rap revetment; roughly 15-foot berm remains; however, it will continue to erode and eventually intrude into the levee profile if left untreated.  
10/20/2006: Just upstream of where berm starts to widen. [2014 Site ID:RD2095U02RM60.69]

Photo 1 of 1 : SP\_2015\_RD2095\_323\_2\_20150317\_00002.jpg



View of the erosion from the survey boat. The dense vegetation on the site blocks the view of the erosion.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2015**

**Reclamation District No. 2095 Paradise Cut**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Left	3.41	04/22/2015 04/22/2015	Maksim Khashchuk

LM Start	2.11	Rating **	M	Issue No.	944
LM End	2.11	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.735416 °	37.735416 °
				-121.297860 °	-121.297860 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:19867					
DS_ID:21643					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Siphon breaker on LS shoulder does not appear to be functional.					
FIELD_STRUCT_DESC: 16-inch steel irrigation pipe through the levee 2.0-feet below the crown. Slant pump on steel platform on WS slope. Siphon breaker on the landward shoulder marked by T-post. Service pole and meter on the landward toe. Possible concrete standpipe on LS toe. Originally included in the 1968 O&M manual.					
FS Date: 09/10/2013					

No Photos

LM Start	2.12	Rating **	M	Issue No.	20
LM End	2.12	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.734858 °	37.734858 °
				-121.297758 °	-121.297758 °
DWR ID	DWR_RD2095_02_s_2012_20				
Action/Comments					
Elderberries are blocking visibility and flood fight capability.					

Photo 1 of 1 : SP\_2015\_RD2095\_323\_20\_20150317\_00008.jpg



Vegetation on waterside slope obstructs access and visibility.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2015**

**Reclamation District No. 2095 Paradise Cut**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Left	3.41	04/22/2015 04/22/2015	Maksim Khashchuk

LM Start	2.37	Rating **	A/W	Issue No.	23
LM End	2.37	Issue Type +	En	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.731555 °	37.731555 °
				-121.298283 °	-121.298283 °
DWR ID	DWR_RD2095_02_s _ 2012_23				
Action/Comments					
Pipe					

No Photos

LM Start	2.67	Rating **	A/W	Issue No.	26
LM End	2.67	Issue Type +	En	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.727233 °	37.727233 °
				-121.299732 °	-121.299732 °
DWR ID	DWR_RD2095_02_f _ 2013_26				
Action/Comments					
Pipe					
Inspector Comments: Pipe connections have been made. Permit application needed for this emergency repair.					

No Photos

LM Start	2.70	Rating **	A/W	Issue No.	25
LM End	2.70	Issue Type +	En	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.726733 °	37.726733 °
				-121.299367 °	-121.299367 °
DWR ID	DWR_RD2095_02_s _ 2012_25				
Action/Comments					
Pipe Inspector Comments: Discharge pipe with closure structure on waterside hinge point.					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2015**

**Reclamation District No. 2095 Paradise Cut**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Left	3.41	04/22/2015 04/22/2015	Maksim Khashchuk

LM Start	2.87	Rating **	C	Issue No.	366
LM End	2.87	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.724464 °	37.724464 °
				-121.299870 °	-121.299870 °
DWR ID	DWR_RD2095_02_s _ 2015_366				
Action/Comments					
Schedule repair of erosion site prior to the next inspection.					
Inspector Comments: Restore the levee slope to original condition.					

No Photos

**\* Location**  
LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

**\*\* Rating**  
A : Acceptable                      N : Not Inspected/Rated  
M : Minimally Acceptable        C : Corrected  
U : Unacceptable                  A/W : Acceptable but Monitor & Maintain

**+ Issue Type**  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement